

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/653,650	09/02/2003		Tyson R. McGuffin	200208595-1 3441		
22879	7590	03/23/2005	EXAMINER			
		RD COMPANY	DINH, PAUL			
		4 E. HARMONY RO OPERTY ADMINIS	ART UNIT	PAPER NUMBER		
		80527-2400	2825			

DATE MAILED: 03/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/653,650	MCGUFFIN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Paul Dinh	2825					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
 Responsive to communication(s) filed on <u>07 F</u> This action is FINAL. 2b) ☐ This Since this application is in condition for alloward closed in accordance with the practice under E 	s action is non-final. nce except for formal matters, pro						
Disposition of Claims							
 4) Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) 1-17 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 18-21 and 25 is/are rejected. 7) Claim(s) 22-24 and 26-29 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>02 September 2003</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/2/03.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/653,650

Art Unit: 2825

į,

DETAILED ACTION

This is a response to the election of groups III (claims 18-25 and new claims 26-29 that depend directly or indirectly from either claim 18 or 21) without traverse filed on 2/7/05.

The non-elected claims 1-17 are withdrawn from further consideration.

The applicant is advised that cancellation of the non-elected claim is required. The restriction is final.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 18-21 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen (USP 6728941)

(Claim 18 and similarly recited claim 21)

means for determining switching power related parameters by evaluating predetermined characterizations that functionally relate first set of circuit design characteristics as a function of switching power related parameters (fig 1-9);

means for determining leakage power related parameters by evaluating predetermined characterizations that functionally relate a second set of circuit design characteristics as a function of leakage power related parameters (fig 1-9); and

means for generating a total power estimate based on the switching power related parameters and the leakage power related parameters (fig 1-9).

(Claim 19) the means for determining switching power related parameters comprising means for determining crossover current and means for determining switching capacitance (col 3, summary, fig 5).

(Claim 20) the means for determining leakage power related parameters comprising means for determining gate tunneling leakage and means for determining source-to-drain leakage (col 2, 7).

(Claim 25) executing an analysis tool for a plurality of circuit design instance; computing a plurality of power estimates associated with the plurality of design instances; and comparing the power

Art Unit: 2825

estimates to determine an optimal circuit design (fig 1-9 and tools, computer, CAD, programs in this prior art).

Allowable Subject Matter

Claims 22-24, and 26-29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 22-24, and 26-29 would be allowable because the prior art does not teach or suggest the limitations in claim 22 lines 2-7 and claim 26 lines 2-10.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Dinh whose telephone number is 571-272-1890. The examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Dinh

Patent Examiner

Paul Dinh 3/17/05